

FORM FOR SCORING OF TRAINING RESOURCE TO FULFILL FEDERAL BUILDING PERSONNEL TRAINING ACT (FBPTA) CORE COMPETENCIES

The FBPTA requires Federal building personnel to demonstrate compliance with a set of Core Competencies. The General Services Administration (GSA) accepts submissions for courses, certificates, certifications, accreditations, registrations, licenses, and other qualifications that demonstrate alignment with the FBPTA Core Competencies. GSA will post resources that sufficiently map to FBPTA Core Competency requirements on the FMI webpage (www.fmi.gov) and may incorporate them into the Core Competency Web Tool. The Web Tool allows Federal buildings personnel to immediately claim credit for competencies met by completing approved training. FMI and the Core Competency Web Tool help Federal employees identify appropriate training, and allow Federal agencies to share information on training sources. To qualify for consideration, submitters complete this form describing how a specific training resource, certification / accreditation, license or other resource aligns with FBPTA core competencies through AskFMI@gsa.gov.

Initial Review Conducted By: Maria Fara

Initial Review Submission Completion Date: August 30, 2013

Technical Review Conducted By: Kathy Powers

Technical Review Submission Completion Date: December 2, 2013

Alignment of Competency with Functional Roles

	Often Aligned with Facility Management roles (24/43 Core Competencies)
	Often Aligned with Building Operations Professional roles (6/43 Core Competencies)
	Often Aligned with Energy Management Role (7/43 Core Competencies)
	Often Aligned with more than one role (6/43 Core Competencies)

1. Please complete the following for each training course submitted for consideration:

Training provider: International Facility Management Association

Provider address information (primary physical location, including address, city, state, zip code): International Facility Management Association, 800 Gessner Road, Suite 900, Houston, TX 77024 USA

Provider's primary point of contact for this learning resource (name, primary physical location (if different from provider address information), phone, and email):

Title of this training resource: Operations and Maintenance, Facility Management Professional (FMP)

Type of training course: The FMP is an assessment-based certificate program based on the 4 most heavily-weighted competency areas determined by IFMA's Global Job Task Analysis: Finance and Business, Operations and Maintenance, Leadership and Strategy, and Project Management. Each course is followed by a 50-question online final assessment. Successful completion of all four final assessments qualifies candidates for the FMP credential.

Does this course provide CEUs (Continuing Education Units) and if so, how many and for what occupation or field: In the self-study format, this course earns 1.0 CEUs; the instructor-led course earns 2.0 CEUs. IFMA is an IACET Approved Provider so many related fields accept IFMA CEUs, i.e., Facility Management, Interior Design, Architecture and so forth.

Learning objective(s) associated with this training course: FMP - Operations and Maintenance Learning Objectives

- Chapter 1: Introduction to Operations and Maintenance
- After completing this chapter, students will be able to:
- Explain the role of operations and maintenance in facility management.
  - Discuss the scope of the facility manager's duties and responsibilities in support of the organization's missions and goals.
  - Describe how to develop, recommend and manage/oversee a strategic facility plan and associated O&M tactical plans.
  - Determine appropriate O&M schedules for a comprehensive list of facility assets.

- Chapter 2: Assess Facility Needs
- After completing this chapter, students will be able to:
- Identify and describe building structures, systems, interiors, exteriors and grounds.
  - Discuss common deficiencies in building structures, systems, interiors, exteriors and grounds.
  - Identify security, health and safety considerations relative to building structures, systems, interiors, exteriors and grounds.

- Chapter 3: Manage/Oversee Operations and Maintenance of Building, Systems and Equipment
- After completing this chapter, students will be able to:
- Describe how acquisition begins an asset's life cycle and what factors are used in deciding on an acquisition.
  - Explain the elements of installation and commissioning of systems, materials, and equipment.
  - Describe typical preventive maintenance activities.
  - Explain how Reliability-Centered Maintenance is used to balance maintenance activities effectively using analysis and management tools.
  - List the elements of a typical maintenance management workflow process.
  - Describe the operation of building systems such as building automation, energy management, health and safety elements and emergency preparation.
  - Describe typical conditions and measurements that signal it is time to replace an asset.

Chapter 4: Manage/Oversee Occupant Services

After completing this chapter, students will be able to:

- List typical occupant services and describe the process of determining guidelines for occupant service performance expectations.
- Describe a typical workflow process for occupant services.
- Explain the key aspects of a successful occupant services plan.
- Describe the guidelines that support the workflow process.
- Describe an effective approach to preparing for modifications to occupant services.

Chapter 5: Select the Best Resources

After completing this chapter, students will be able to:

- Discuss the elements, value and use of service level agreements.
- Describe the process to follow when determining whether to use staff or contractors for each service or operation.
- Discuss the process of comparing and selecting among outsourcing candidates for O&M services.
- Explain the negotiation process for a typical service level agreement.
- Describe the principles of measuring competency, monitoring performance, evaluating outcomes for work/service, and developing/promoting best practices.
- Describe key factors and attitudes relative to contract disputes and their resolution.

Chapter 6: Measure Operations and Maintenance Performance

After completing this chapter, students will be able to:

- Discuss life-cycle cost analysis relative to total cost of ownership.
- Use appropriate measuring and data-gathering tools such as reliability-centered maintenance, design for reliability, energy modeling and risk assessment.
- Describe how to use the workflow process, specific performance measurements and key performance indicators to characterize performance using a balanced scorecard.
- Explain how to determine key performance indicators that represent the strategic facility plan.
- Discuss techniques for monitoring and improving customer satisfaction.

Delivery method and learning methods (delivery methods may include online instruction, classroom instruction, or other means, and learning methods could include lecture, group work, essay work, quizzes, or other learning activities): This course is available in either a self-study format or as an instructor-led classroom course. Each student receives a printed course manual (either hard copy or e-book) and access to the online portal which offers activity-based learning, flashcards, case studies, chapter quizzes, and the final assessment. Students taking the instructor-led course also have access to the PowerPoint slides used by instructors to reinforce content. Those taking the self-study format should be self-motivated and able to learn by reading the material, answering progress check questions and completing chapter quizzes, and by taking advantage of the additional material available in the portal. Students in the classroom have those components available in addition to having the benefit of instructor lectures and slides, as well as class discussions and additional learning activities.

Length of training (in hours): At conferences or events and by chapters, the instructor-led version of this course is two full days in length, plus reading to be done outside the classroom. Colleges and universities which offer this course determine their own schedule, usually a few hours per week over a quarter or semester. Completion of the self-study course varies according to the individual, but commonly takes at least ten hours.

URL link to information about the training course, content, and/or syllabus: <http://www.ifmacredentials.org/fmp/>

2. Review the course objective(s) that have been submitted as being aligned with required FBPTA performance criteria. Review the learning methods in the course that will support that learning objective(s).

FBPTA Core Competency Area	FBPTA Core Competency	Required FBPTA performance criteria	Based on technical review of learning objectives and skills, does this resource map to the performance criteria?	Initial Review: Are all submission requirements included?	Initial Review: Are descriptions clear and logical?	Initial Review: Are all materials referenced included with the submission?	Technical Review: Learning Objectives Reviewed	Technical Review: Skills Reviewed	Technical Review: Are there any clarifications requested?	If clarification requested, note here	Clarification Response From Provider	Technical Review: Identify other materials submitted	Technical Review: Other Materials Reviewed
		1.1.1.Demonstrate familiarity with Building Systems.	Yes,, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate familiarity with Building Systems: HVAC, Electrical (and Standby generators), Lighting, Mechanical/Plumbing (and Fire protection systems), Vertical transportation, Structural, Roofing, Building Envelope.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.1.2.Demonstrate ability to work with Facilities Team to assess a facility's need for building systems.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to work with Facilities Team to assess a facility's need for building systems.	Yes	Yes	Yes	Yes	Yes	No			None	No

1. Management of Facilities O&M	1.1 Management of Building Systems	1.1.3.Demonstrate ability to oversee the acquisition, installation, and operation of building systems.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to oversee the acquisition, installation, and operation of building systems.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.1.4.Demonstrate ability to work with Facilities Team to establish practices and procedures.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to work with Facilities Team to establish practices and procedures.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.1.6.Demonstrate ability to monitor and evaluate how well building systems perform.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to monitor and evaluate how well building systems perform.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.1.7.Demonstrate ability to manage corrective, preventive and predictive maintenance.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to manage corrective, preventive and predictive maintenance.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.1.8.Demonstrate ability to work with Facilities Team to develop emergency procedures for building systems.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to work with Facilities Team to develop emergency procedures for building systems.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.1.9.Demonstrate knowledge of how to implement disaster recovery plans for building systems as required.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate knowledge of how to implement disaster recovery plans for building systems as required.	Yes	Yes	Yes	Yes	Yes	No			None	No
	Management of Building Interior	1.2.1.Demonstrate knowledge of how to evaluate building structures and permanent interiors.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate knowledge of how to evaluate building structures and permanent interiors.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.2.2.Demonstrate ability to manage the service/repair requests and maintenance and cleaning needs of building structures and permanent interior elements.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to manage the service/repair requests, maintenance, cleaning needs of building structures, and permanent interior elements.	Yes	Yes	Yes	Yes	Yes	No			None	No

	1.2 Manage	1.2.3.Demonstrate ability to evaluate furniture and equipment performance.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to evaluate furniture and equipment performance.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.2.4.Demonstrate ability to manage the maintenance and cleaning of furniture and equipment.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to manage the maintenance and cleaning of furniture and equipment.	Yes	Yes	Yes	Yes	Yes	No			None	No
	1.3 Management of Building Exterior	1.3.1.Demonstrate familiarity with managing grounds and exteriors, parking structures, site utilities, landscaping and grounds, exterior envelope (roof, brick, masonry, etc.).	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate familiarity with managing grounds and exteriors, parking structures, site utilities, landscaping and grounds, and exterior envelope (e.g., roof, brick, masonry).	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.3.3.Demonstrate ability to evaluate the performance of grounds and exterior elements.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the ability to evaluate the performance of grounds and exterior elements.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.3.4.Demonstrate ability to assess the need for alterations in grounds and exterior elements.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the ability to assess the need for alterations in grounds and exterior elements.	Yes	Yes	Yes	Yes	Yes	No			None	No
		1.3.5.Demonstrate ability to manage the maintenance and custodial needs of grounds and exterior elements.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the ability to manage the maintenance and custodial needs of grounds and exterior elements.	Yes	Yes	Yes	Yes	Yes	No			None	No
	ment of Other Facility Systems	1.4.1.Demonstrate ability to manage equipment and infrastructure for vehicles and vehicle maintenance.	No, Based on the review of the learning objectives and the skills/materials covered, the provider clarification and the O&M IFMA Training content the FMP does not demonstrate ability to manage equipment and infrastructure for vehicles and vehicle maintenance.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 4 (or any of the chapters) addresses the ability to manage vehicles (fleet management). Page 114 lists fleet management as an "occupant service" but not specifically how to manage a fleet. Request clarification and course content relevant to vehicle management.	This course provides comprehensive knowledge regarding the general management of occupant services. Fleet management is just one of the many occupant services which should be managed in accordance with these principles. Request partial credit.	None	No

	1.4. Manager	1.4.2.Demonstrate ability to work with Security Personnel as required.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to work with Security Personnel as required.	Yes	Yes	Yes	Yes	Yes	No			None	No
2. Performance of Facilities O&M	2.1. Operating and Maintaining HVAC Systems	2.1.3.Demonstrate understanding of indoor air quality and how to test and adjust it.	Partial. This course received credit because the course provides general knowledge of indoor air quality. However, as the performance criteria is intended primarily for building operators, it does not sufficiently provide the detail required for a building operator.	Yes	Yes	Yes	Yes	Yes	No			None	No
		2.1.4.Demonstrate ability to analyze HVAC system performance.	Partial. This course received credit because the course provides general knowledge of HVAC performance. However, as the performance criteria is intended primarily for building operators, it does not sufficiently provide the detail required for a building operator.	Yes	Yes	Yes	Yes	Yes	No			None	No
		2.1.6.Demonstrate knowledge and ability to maintain all HVAC Systems.	Partial. This course received credit because the course provides general knowledge of HVAC systems maintenance. However, as the performance criteria is intended primarily for building operators, it does not sufficiently provide the detail required for a building operator.	Yes	Yes	Yes	Yes	Yes	No			None	No
	2.2. Operating and Maintaining Electrical and Mechanical Systems	2.2.1.Demonstrate knowledge and ability with Lighting Systems.	Partial. This course received credit for demonstrating knowledge and providing an overview of lighting systems only. Based on the review of the learning objectives and the skills/materials covered, the provider clarification and the O&M IFMA Training content the FMP does demonstrate an overview of lighting systems but not the ability to Trouble shoot lighting systems, adjust lighting programming, replace lamps, replace ballasts, maintain lamps and ballast inventory.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 2, pages 49-51, addresses adjusting lighting programs, replacing ballasts and ballast inventory. Request clarification and course content relevant to adjusting lighting programs, replacing ballasts and ballast inventory.	See Exhibit O&M 2.2.1. FMP course content is not at the technical / operator level, and different facilities in different locations will have unique equipment and operating conditions. However, since this performance criteria calls for the demonstration of knowledge and ability, and the course content does impart relevant knowledge, partial credit should be awarded.	Exhibit material provided by course provider	Yes
es O&M	novation	2.5.3.Demonstrate knowledge of and the ability to perform "predictive maintenance." <i>FEMP O&amp;M Best Practices Release 3.0 pg. 59</i> ( <a href="http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf">http://www1.eere.energy.gov/femp/pdfs/omguide_complete.pdf</a> )	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the knowledge of and the ability to perform "predictive maintenance".	Yes	Yes	Yes	Yes	Yes	No			None	No

2. Performance of Facilities	2.5. Best Practices and In	2.5.4.Demonstrate knowledge of ALL types of commissioning, and what is required in the Energy Independence and Security Act 2007 (EISA). <b>FEMP O&amp;M Best Practices Release 3.0 pg. 7.1 AND EISA SEC 432.</b>	Partial. This course received credit for demonstrating knowledge and providing an overview of commissioning only. Based on the review of the learning objectives and the skills/materials covered, the provider clarification and the O&M IFMA Training content the FMP does demonstrate a knowledge of commissioning but does not include what is required by EISA.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that the learning objective and skills/material address: demonstrate knowledge of ALL types of commissioning, and what is required in the Energy Independence and Security Act 2007 (EISA). Request clarification and course content relevant to this specific performance criteria.	See Exhibit O&M 2.5.4. EISA is not discussed because it relates only to the US, but it can be included in the online Resource Center. However, because various types of commissioning are covered, it should get partial credit for imparting knowledge.	Exhibit material provided by course provider	Yes
3. Technology	3.1. Technology Solutions	3.1.3.Demonstrate ability to identify evaluation criteria, evaluate, and recommend facility management technologies solutions.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the ability to identify evaluation criteria, evaluate, and recommend facility management technologies solutions.	Yes	Yes	Yes	Yes	Yes	No			None	No
		3.1.4.Demonstrate ability to assess how changes to facility management technologies will impact current infrastructure, processes, and building systems.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the ability to assess how changes to facility management technologies will impact current infrastructure, processes, and building systems.	Yes	Yes	Yes	Yes	Yes	No			None	No
		3.1.5.Demonstrate ability to plan for and oversee the acquisition, installation, operation, maintenance, upgrade, and disposition of components supporting facility management technologies.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to plan for and oversee the acquisition, installation, operation, maintenance, upgrade, and disposition of components supporting facility management technologies.	Yes	Yes	Yes	Yes	Yes	No			None	No
		3.1.8.Demonstrate ability to monitor performance of facility management technologies and make appropriate recommendations when modifications are needed.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate ability to monitor performance of facility management technologies and make appropriate recommendations when modifications are needed.	Yes	Yes	Yes	Yes	Yes	No			None	No
		3.1.9.Demonstrate ability to manage corrective, preventive, and predictive maintenance.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the ability to manage corrective, preventive, and predictive maintenance.	Yes	Yes	Yes	Yes	Yes	No			None	No





4. Energy Management	4.1. Systems and Demand Reduction	4.1.1.Demonstrate knowledge of building systems and how they affect energy use	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the knowledge of building systems and how they affect energy use: o HVAC System o Electrical Systems o Motors and drives o Lighting Systems o Building Envelope o Fuel Systems - Fuel Selection	Yes	Yes	Yes	Yes	Yes	No			None	No
		4.1.3.Demonstrate knowledge of Renewable Energy Systems – Solar (Thermal and Photovoltaic), Wind, Biomass, and Hydropower.	No, based on the review of the learning objectives and the skills/materials covered, this course does not address renewable energy systems and does not clearly map to the performance criteria.	Yes	Yes	Yes	Yes	Yes	No		Please see O&M Exhibits 4.1.3. Partial credit is requested.	Exhibit material provided by course provider	Yes
		4.1.5.Demonstrate knowledge of Building Automation Systems (BAS) and Control Systems.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the knowledge of Building Automation Systems (BAS) and Control Systems.	Yes	Yes	Yes	Yes	Yes	No			None	No
		4.1.6.Demonstrate knowledge of Enhanced Automation (EA) – California Energy Commission. <a href="http://www.energy.ca.gov/enhancedautomation/">http://www.energy.ca.gov/enhancedautomation/</a>	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate the knowledge of Enhanced Automation (EA).	Yes	Yes	Yes	Yes	Yes	No			None	No
		4.1.7.Demonstrate knowledge of Energy Management Systems (EMS) and Energy Information Systems (EIS).	Partial. This course received credit because the course provides general knowledge of EMS and EIS. However, as the performance criteria is intended primarily for energy managers, it does not sufficiently provide the detail required for an energy manager.	Yes	Yes	Yes	Yes	Yes	No			None	No
		4.1.8.Demonstrate knowledge of re-programming current systems and expanding network of sensors and control devices to optimize HVAC, lighting, and other automated systems.	No, based on the review of the learning objectives and the skills/materials covered, FMP does cover the basics of energy management but does not address reprogramming current systems and expanding network of sensors and control devices to optimize HVAC, lighting, and other automated systems.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that the learning objective and the skills/material provided address: demonstrate knowledge of re-programming current systems and expanding network of sensors and control devices to optimize HVAC, lighting, and other automated systems. Request clarification and course content relevant to these specific performance criteria.	See O&M Exhibit 4.1.8 for discussion of energy management initiatives.	Exhibit material provided by course provider	Yes
		4.1.9.Demonstrate knowledge of how to incorporate occupancy sensors, task lighting, and thermostatic set-points with weather forecasting and other demand linked strategies to optimize building performance.	No, based on the review of the learning objectives and the skills/materials covered, FMP does cover the basics of energy management but does not address how to incorporate occupancy sensors, task lighting, and thermostatic set-points with weather forecasting and other demand linked strategies to optimize building performance.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 3 addresses demand linked strategies to optimize building performance. Request clarification and course content relevant to this specific performance criteria.	See O&M Exhibit 4.1.8 for discussion of reducing and controlling demand as part of energy management.	Exhibit material provided by course provider	Yes



	4.2. Assess Initial Conditions	4.2.1.Demonstrate knowledge of how to perform an Energy Savings Assessment <a href="http://www1.eere.energy.gov/femp/program/om_wgresources.html">http://www1.eere.energy.gov/femp/program/om_wgresources.html</a>	No, based on the review of the learning objectives and the skills/materials covered, (no clarification was provided) FMP does cover the basics of energy management but does not demonstrate knowledge of how to perform an Energy Savings Assessment.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 3 addresses Energy Audits. Request clarification and course content relevant to this specific performance criteria.		None	No
	4.3. Commissioning and Energy Savings Performance Contracts (ESPC)	4.3.1.Demonstrate knowledge of all types of Commissioning, the differences between them, and commissioning requirements in laws and Executive Orders.	Partial. This course received credit for demonstrating knowledge and providing an overview of commissioning only. Based on the review of the learning objectives and the skills/materials covered, the provider clarification and the O&M IFMA Training content the FMP does demonstrate a knowledge of commissioning but the differences between them, and commissioning requirements in laws and Executive Orders.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 3 addresses commissioning requirements in laws and Executive Orders. Request clarification and course content relevant to this specific performance criteria.	See O&M Exhibit 2.5.4. Although US-centric information regarding laws and Executive Orders is not covered, it can be included in Resource Center. Regardless, course material provides knowledge of commissioning and should receive at least partial credit.	Exhibit material provided by course provider	Yes
	5.2. Infrastructure	5.2.3.Demonstrate knowledge of ventilation systems and prevention of contaminant introduction and cross contamination.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should demonstrate knowledge of ventilation systems and prevention of contaminant introduction and cross contamination.	Yes	Yes	Yes	Yes	Yes	No			None	No
		5.2.4.Demonstrate knowledge of fire prevention systems in hazardous locations/operations, food preparation areas, and electrical transformers.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include fire prevention systems in hazardous locations and operations, food preparation areas, and electrical transformers.	Yes	Yes	Yes	Yes	Yes	No			None	No
		5.2.7.Demonstrate the ability to ensure that all building confined spaces are evaluated and marked.	No, based on the review of the learning objectives and the skills/materials covered, (no clarification was provided) FMP does not demonstrate the ability to ensure that all building confined spaces are evaluated and marked.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 2 pages 25-27 addresses evaluating and marking confined spaces. Request clarification and course content relevant to this specific performance criteria.		None	No
		5.2.8.Demonstrate the ability to ensure proper maintenance of special purpose, unique design or antiquated fire alarm and suppression systems.	No, based on the review of the learning objectives and the skills/materials covered, (no clarification was provided) FMP does not demonstrate the ability to ensure proper maintenance of special purpose, unique design or antiquated fire alarm and suppression systems.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 2 pages 30-32 and 53 address proper maintenance of special purpose, unique design or antiquated fire alarm. Request clarification and course content relevant to this specific performance criteria.		None	No



6. Design	6.1. Planning	6.1.1.Demonstrate knowledge and ability to conduct an assessment of "needs" that will evaluate whether current facilities can respond to a new requirement or whether a "project" must be developed to respond to the new requirement. <a href="http://www.wbdg.org/design/func_oper.php">http://www.wbdg.org/design/func_oper.php</a>	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include how to conduct an assessment of needs that will evaluate whether current facilities can respond to a new requirement or whether a project must be developed to respond to the new requirement.	Yes	Yes	Yes	Yes	Yes	No			None	No
	6.2. Infrastructure Systems	6.2.1.Demonstrate knowledge and understanding of the design basis of all applicable Architectural and Engineering Systems.	No, based on the review of the learning objectives and the skills/materials covered, (no clarification was provided), FMP does not demonstrate knowledge and understanding of the design basis of all applicable Architectural and Engineering Systems.	Yes	Yes	Yes	Yes	Yes	Yes	Request clarification. It is not clear that Chapter 2 addresses knowledge and understanding of the design basis of all applicable Architectural and Engineering Systems. Request clarification and course content relevant to this specific performance criteria.		None	No
11. Leadership and Innovation	11.2. Personnel	11.2.2. Demonstrate knowledge and ability to develop, test and train personnel on emergency systems, plans and procedures.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include: o Develop or participate in the development of emergency plans o Assure people are trained in emergency procedures o Assure all emergency systems and procedures are tested as planned o Assure emergency drills and conducted o Develop or participate in the development of recovery plans.	Yes	Yes	Yes	Yes	Yes	No			None	No
12. Performance Measures	12.2. Acquiring Data	12.2.2.Demonstrate knowledge of key building performance measures, where and how to read them, and reporting requirements.	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include key building performance measures, where and how to read them, and reporting requirements.	Yes	Yes	Yes	Yes	Yes	No			None	No
	12.3. Establishment and Implementation	12.3.11. Demonstrate ability to understand, provide input for, and use additional key performance indicators (KPIs) developed by organization to measure the qualitative aspects of facilities operations and management:  REVIEW - <a href="http://www.wbdg.org/resources/fpe.php?r=engage_process">http://www.wbdg.org/resources/fpe.php?r=engage_process</a>	Yes, based on the review of the learning objectives and the skills/materials covered, the topics listed should include the ability to understand, provide input for, and use additional (KPI) developed by organization to measure the qualitative aspects of facilities operations and management.	Yes	Yes	Yes	Yes	Yes	No			None	No